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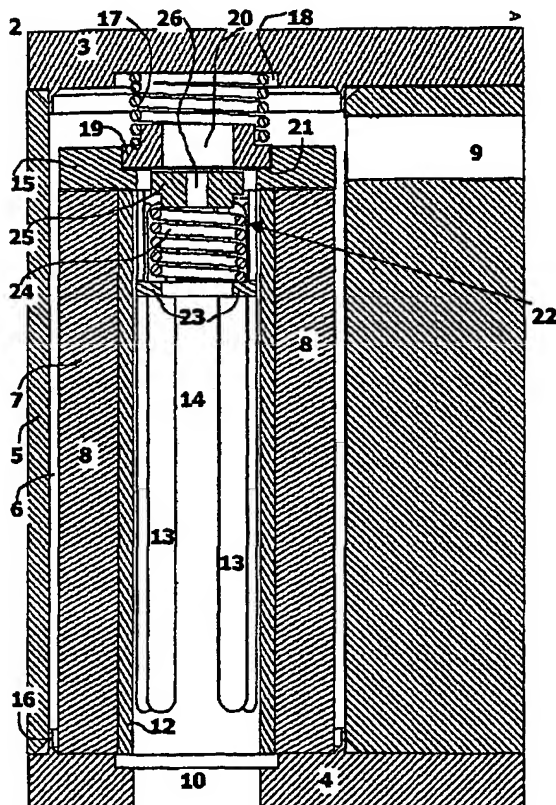
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(54) Title: MICRO-FILTER DEVICE WITH BY PASS AND METHOD OF DESIGN THEREFOR



(57) Abstract: Micro-filter device and method of design therefore, for optimising the same for use in a situation in which at different flows of oil through the device (1), different 5 pressure differences P_d over the device (1) are allowed, comprising the steps of determining the minimum cross section of a restriction (26) for allowing a minimum amount of flow of oil for by-passing a micro-filter element (7), required for attaining a given maximum pressure difference (P_2) over the device at a lowest given amount of flow of oil; limiting the maximum P_d to that of a largest given amount of flow through 10 the device (1) by the use of a pressure valve system (22) opening once said maximum pressure difference (P_1) has been reached. The device (1) is provided with both an orifice (26) and a pressure valve system (22) allowing a flow of oil by-passing the filter element (7).



Declarations under Rule 4.17:

- *as to the identity of the inventor (Rule 4.17(i)) for all designations*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY,*

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